INTERNATIONAL SEARCH REPORT

International Application No PCT/IB2004/050386

A. CLASSII IPC 7	FICATION OF SUBJECT MATTER B03B9/00 B03B5/72 B03B5/08	B03B5/26							
According to International Patent Classification (IPC) or to both national classification and IPC									
B. FIELDS		_							
Minimum do IPC 7	cumentation searched (classification system followed by classification $B03B$	n symbols)							
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched									
Electronic da	ata base consulted during the international search (name of data base	e and, where practical, search terms used)							
EPO-Internal									
C. DOCUMENTS CONSIDERED TO BE RELEVANT									
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.						
x	FR 1 123 805 A (H. KAGAN) 28 September 1956 (1956-09-28) the whole document		1-5,9						
Х	US 1 736 111 A (MALCOLM DAVIDSON 19 November 1929 (1929-11-19) page 3, line 125 - page 4, line 3 figures 1a,3	·	1,5,9						
Х	US 682 749 A (J. G. ROBERTS) 17 September 1901 (1901-09-17) page 1, line 50 - page 3, line 12 figure 1	21	1,5						
X	US 4 505 811 A (GRIFFITHS ANTHON) AL) 19 March 1985 (1985-03-19) the whole document	/J ET	1-9						
Furt	ner documents are listed in the continuation of box C.	X Patent family members are listed	in annex.						
Special categories of cited documents :									
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "E" document defining the general state of the art which is not cited to understand the principle or theory underlying the Invention "X" document of particular relevance; the claimed invention									
which citation	ate int which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-							
other of		ments, such combination being obvio in the art. "&" document member of the same patent	us to a person skilled						
	actual completion of the international search	Date of mailing of the international sea	rch report						
2	4 June 2004	0 4. 10. 20	04						
Name and r	nailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer							
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Leitner, J							

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Information on patent family members

International Application No
PCT/IB2004/050386

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
FR 1123805	Α	28-09-1956	NONE		
US 1736111	Α	19-11-1929	NONE		
US 682749	Α		NONE		
US 4505811	Α	19-03-1985	AU BR GB	2047883 A 8305672 A 2132117 A	19-04-1984 15-05-1984 04-07-1984

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: .
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-9
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

Method for heavy particle separation including a primary separation stage with the steps of dropping, accumulating, concentrating and discharging of heavy particles and/or a secondary separation with the steps of infeeding, stilling and retaining heavy particles

2. claims: 10-22

Heavy particle separation apparatus and method including a concavely shaped, tiltable, transverse belt with a spiral rib for moving material up the transverse belt, and a material feeder and a water spray system above the belt.